#7

OIPE

RAW SEQUENCE LISTING   DATE: 08/28/2001
PATENT APPLICATION: US/09/758,493   TIME: 10:02:12

Input Set : A:\00786-804001.TXT
Output Set: N:\CRF3\08282001\I758493.raw

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 4 <110> APPLICANT: Arnaout, M. Amin
 5         Li, Rui
 6         Xiong, Jian-Ping
 8 <120> TITLE OF INVENTION: HIGH AFFINITY INTEGRIN POLYPEPTIDES AND
 9         USES THEREOF
11 <130> FILE REFERENCE: 00786-804001
13 <140> CURRENT APPLICATION NUMBER: US 09/758,493
14 <141> CURRENT FILING DATE: 2001-01-11
16 <150> PRIOR APPLICATION NUMBER: US 60/221,950
17 <151> PRIOR FILING DATE: 2000-07-31
19 <160> NUMBER OF SEQ ID NOS: 20
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 191
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
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30  1               5                   10                  15
31 Ser Ile Ile Pro His Asp Phe Arg Arg Met Lys Glu Phe Val Ser Thr
32              20                  25                  30
33 Val Met Glu Gln Leu Lys Lys Ser Lys Thr Leu Phe Ser Leu Met Gln
34          35                  40                  45
35 Tyr Ser Glu Glu Phe Arg Ile His Phe Thr Phe Lys Glu Phe Gln Asn
36      50                  55                  60
37 Asn Pro Asn Pro Arg Ser Leu Val Lys Pro Ile Thr Gln Leu Leu Gly
38 65                  70                  75                  80
39 Arg Thr His Thr Ala Thr Gly Ile Arg Lys Val Val Arg Glu Leu Phe
40              85                  90                  95
41 Asn Ile Thr Asn Gly Ala Arg Lys Asn Ala Phe Lys Ile Leu Val Val
42              100                 105                 110
43 Ile Thr Asp Gly Glu Lys Phe Gly Asp Pro Leu Gly Tyr Glu Asp Val
44          115                 120                 125
45 Ile Pro Glu Ala Asp Arg Glu Gly Val Ile Arg Tyr Val Ile Gly Val
46      130                 135                 140
47 Gly Asp Ala Phe Arg Ser Glu Lys Ser Arg Gln Glu Leu Asn Thr Ile
48 145                 150                 155                 160
49 Ala Ser Lys Pro Pro Arg Asp His Val Phe Gln Val Asn Asn Phe Glu
50              165                 170                 175
51 Ala Leu Lys Thr Ile Gln Asn Gln Leu Arg Glu Lys Ile Phe Ala
52              180                 185                 190
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 191
56 <212> TYPE: PRT
57 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 2
60 Cys Pro Arg Gln Glu Gln Asp Ile Val Phe Leu Ile Asp Gly Ser Gly
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61  1                 5                 10                15
62  Ser Ile Ser Ser Arg Asn Phe Ala Thr Met Met Asn Phe Val Arg Ala
63            20                25                30
64  Val Ile Ser Gln Phe Gln Arg Pro Ser Thr Gln Phe Ser Leu Met Gln
65            35                40                45
66  Phe Ser Asn Lys Phe Gln Thr His Phe Thr Phe Glu Glu Phe Arg Arg
67      50                55                60
68  Thr Ser Asn Pro Leu Ser Leu Leu Ala Ser Val His Gln Leu Gln Gly
69  65                70                75                80
70  Phe Thr Tyr Thr Ala Thr Ala Ile Gln Asn Val Val His Arg Leu Phe
71            85                90                95
72  His Ala Ser Tyr Gly Ala Arg Arg Asp Ala Thr Lys Ile Leu Ile Val
73            100               105               110
74  Ile Thr Asp Gly Lys Lys Glu Gly Asp Ser Leu Asp Tyr Lys Asp Val
75          115               120               125
76  Ile Pro Met Ala Asp Ala Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val
77      130               135               140
78  Gly Leu Ala Phe Gln Asn Arg Asn Ser Trp Lys Glu Leu Asn Asp Ile
79  145               150               155               160
80  Ala Ser Lys Pro Ser Gln Glu His Ile Phe Lys Val Glu Asp Phe Asp
81            165               170               175
82  Ala Leu Lys Asp Ile Gln Asn Gln Leu Lys Glu Lys Ile Phe Ala
83            180               185               190

85  <210> SEQ ID NO: 3
86  <211> LENGTH: 191
87  <212> TYPE: PRT
88  <213> ORGANISM: Homo sapiens

90  <400> SEQUENCE: 3
91  Cys Pro His Gln Glu Met Asp Ile Val Phe Leu Ile Asp Gly Ser Gly
92  1                 5                 10                15
93  Ser Ile Asp Gln Asn Asp Phe Asn Gln Met Lys Gly Phe Val Gln Ala
94            20                25                30
95  Val Met Gly Gln Phe Glu Gly Thr Asp Thr Leu Phe Ala Leu Met Gln
96            35                40                45
97  Tyr Ser Asn Leu Leu Lys Ile His Phe Thr Phe Thr Gln Phe Arg Thr
98      50                55                60
99  Ser Pro Ser Gln Gln Ser Leu Val Asp Pro Ile Val Gln Leu Lys Gly
100 65                70                75                80
101 Leu Thr Phe Thr Ala Thr Gly Ile Leu Thr Val Val Thr Gln Leu Phe
102           85                90                95
103 His His Lys Asn Gly Ala Arg Lys Ser Ala Lys Lys Ile Leu Ile Val
104           100               105               110
105 Ile Thr Asp Gly Gln Lys Tyr Lys Asp Pro Leu Glu Tyr Ser Asp Val
106         115               120               125
107 Ile Pro Gln Ala Glu Lys Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val
108     130               135               140
109 Gly His Ala Phe Gln Gly Pro Thr Ala Arg Gln Glu Leu Asn Thr Ile
110 145               150               155               160
111 Ser Ser Ala Pro Pro Gln Asp His Val Phe Lys Val Asp Asn Phe Ala
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112                   165              170              175
113 Ala Leu Gly Ser Ile Gln Lys Gln Leu Gln Glu Lys Ile Tyr Ala
114                   180              185              190
116 <210> SEQ ID NO: 4
117 <211> LENGTH: 184
118 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 4
122 Cys Ile Lys Gly Asn Val Asp Leu Val Phe Leu Phe Asp Gly Ser Met
123 1                 5                10               15
124 Ser Leu Gln Pro Asp Glu Phe Gln Lys Ile Leu Asp Phe Met Lys Asp
125                   20               25               30
126 Val Met Lys Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln
127          35               40               45
128 Phe Ser Thr Ser Tyr Lys Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys
129      50               55               60
130 Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val Lys His Met Leu Leu
131 65                72               75               80
132 Leu Thr Asn Thr Phe Gly Ala Ile Asn Tyr Val Ala Thr Glu Val Phe
133                   85               90               95
134 Arg Glu Glu Leu Gly Ala Arg Pro Asp Ala Thr Lys Val Leu Ile Ile
135                   100              105              110
136 Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala Ala Lys
137          115              120              125
138 Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln Thr Lys
139      130              135              140
140 Glu Ser Gln Glu Thr Leu His Lys Phe Ala Ser Lys Pro Ala Ser Glu
141 145                  150              155              160
142 Phe Val Lys Ile Leu Asp Thr Phe Glu Lys Leu Lys Asp Leu Phe Thr
143                   165              170              175
144 Glu Leu Gln Lys Lys Ile Tyr Val
145                   180
147 <210> SEQ ID NO: 5
148 <211> LENGTH: 195
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 5
153 Cys Ser Thr Gln Leu Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser
154 1                 5                10               15
155 Ile Tyr Pro Trp Asp Ser Val Thr Ala Phe Leu Asn Asp Leu Leu Lys
156                   20               25               30
157 Arg Met Asp Ile Gly Pro Lys Gln Thr Gln Val Gly Ile Val Gln Tyr
158          35               40               45
159 Gly Glu Asn Val Thr His Glu Phe Asn Leu Asn Lys Tyr Ser Ser Thr
160      50               55               60
161 Glu Glu Val Leu Val Ala Ala Lys Lys Ile Val Gln Arg Gly Gly Arg
162 65                70               75               80
163 Gln Thr Met Thr Ala Leu Gly Thr Asp Thr Ala Arg Lys Glu Ala Phe
164                   85               90               95
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165 Thr Glu Ala Arg Gly Ala Arg Arg Gly Val Lys Lys Val Met Val Ile
166             100             105             110
167 Val Thr Asp Gly Glu Ser His Asp Asn His Arg Leu Lys Lys Val Ile
168         115             120             125
169 Gln Asp Cys Glu Asp Glu Asn Ile Gln Arg Phe Ser Ile Ala Ile Leu
170     130             135             140
171 Gly Ser Tyr Asn Arg Gly Asn Leu Ser Thr Glu Lys Phe Val Glu Glu
172 145             150             155             160
173 Ile Lys Ser Ile Ala Ser Glu Pro Thr Glu Lys His Phe Phe Asn Val
174             165             170             175
175 Ser Asp Glu Leu Ala Leu Val Thr Ile Val Lys Thr Leu Gly Glu Arg
176         180             185             190
177 Ile Phe Ala
178         195
180 <210> SEQ ID NO: 6
181 <211> LENGTH: 195
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 6
186 Cys Pro Ser Leu Ile Asp Val Val Val Cys Asp Glu Ser Asn Ser
187 1               5               10              15
188 Ile Tyr Pro Trp Asp Ala Val Lys Asn Phe Leu Glu Lys Phe Val Gln
189             20              25              30
190 Gly Leu Asp Ile Gly Pro Thr Lys Thr Gln Val Gly Leu Ile Gln Tyr
191         35              40              45
192 Ala Asn Asn Pro Arg Val Val Phe Asn Leu Asn Thr Tyr Lys Thr Lys
193     50              55              60
194 Glu Glu Met Ile Val Ala Thr Ser Gln Thr Ser Gln Tyr Gly Gly Asp
195 65              70              75              80
196 Leu Thr Asn Thr Phe Gly Ala Ile Gln Tyr Ala Arg Lys Tyr Ala Tyr
197             85              90              95
198 Ser Ala Ala Ser Gly Gly Arg Arg Ser Ala Thr Lys Val Met Val Val
199             100             105             110
200 Val Thr Asp Gly Glu Ser His Asp Gly Ser Met Leu Lys Ala Val Ile
201         115             120             125
202 Asp Gln Cys Asn His Asp Asn Ile Leu Arg Phe Gly Ile Ala Val Leu
203     130             135             140
204 Gly Tyr Leu Asn Arg Asn Ala Leu Asp Thr Lys Asn Leu Ile Lys Glu
205 145             150             155             160
206 Ile Lys Ala Ile Ala Ser Ile Pro Thr Glu Arg Tyr Phe Phe Asn Val
207             165             170             175
208 Ser Asp Glu Ala Ala Leu Leu Glu Lys Ala Gly Thr Leu Gly Glu Gln
209         180             185             190
210 Ile Phe Ser
211         195
213 <210> SEQ ID NO: 7
214 <211> LENGTH: 195
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
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218 <400> SEQUENCE: 7
219 Cys Pro Thr Tyr Met Asp Val Val Ile Val Leu Asp Gly Ser Asn Ser
220 1               5                   10                  15
221 Ile Tyr Pro Trp Ser Glu Val Gln Thr Phe Leu Arg Arg Leu Val Gly
222             20                  25                  30
223 Lys Leu Phe Ile Asp Pro Glu Gln Ile Gln Val Gly Leu Val Gln Tyr
224         35                  40                  45
225 Gly Glu Ser Pro Val His Glu Trp Ser Leu Gly Asp Phe Arg Thr Lys
226     50                  55                  60
227 Glu Glu Val Val Arg Ala Ala Lys Asn Leu Ser Arg Arg Glu Gly Arg
228 65                  70                  75                  80
229 Glu Thr Lys Thr Ala Gln Ala Ile Met Val Ala Cys Thr Glu Gly Phe
230             85                  90                  95
231 Ser Gln Ser His Gly Gly Arg Pro Glu Ala Ala Arg Leu Leu Val Val
232             100                 105                 110
233 Val Thr Asp Gly Glu Ser His Asp Gly Glu Glu Leu Pro Ala Ala Leu
234         115                 120                 125
235 Lys Ala Cys Glu Ala Gly Arg Val Thr Arg Tyr Gly Ile Ala Val Leu
236     130                 135                 140
237 Gly His Tyr Leu Arg Arg Gln Arg Asp Pro Ser Ser Phe Leu Arg Glu
238 145                 150                 155                 160
239 Ile Arg Thr Ile Ala Ser Asp Pro Asp Glu Arg Phe Phe Phe Asn Val
240             165                 170                 175
241 Thr Asp Glu Ala Ala Leu Thr Asp Ile Val Asp Ala Leu Gly Asp Arg
242             180                 185                 190
243 Ile Phe Gly
244         195
246 <210> SEQ ID NO: 8
247 <211> LENGTH: 193
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 8
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253 1               5                   10                  15
254 Ile Tyr Pro Trp Val Glu Val Gln His Phe Leu Ile Asn Ile Leu Lys
255             20                  25                  30
256 Lys Phe Tyr Ile Gly Pro Gly Gln Ile Gln Val Gly Val Val Gln Tyr
257         35                  40                  45
258 Gly Glu Asp Val Val His Glu Phe His Leu Asn Asp Tyr Arg Ser Val
259     50                  55                  60
260 Lys Asp Val Val Glu Ala Ala Ser His Ile Glu Gln Arg Gly Gly Thr
261 65                  70                  75                  80
262 Glu Thr Arg Thr Ala Phe Gly Ile Glu Phe Ala Arg Ser Glu Ala Phe
263             85                  90                  95
264 Gln Lys Gly Gly Arg Lys Gly Ala Lys Lys Val Met Ile Val Ile Thr
265             100                 105                 110
266 Asp Gly Glu Ser His Asp Ser Pro Asp Leu Glu Lys Val Ile Gln Gln
267         115                 120                 125
268 Ser Glu Arg Asp Asn Val Thr Arg Tyr Ala Val Ala Val Leu Gly Tyr
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VERIFICATION SUMMARY
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